**Table 2. Levels of Metals [a] (µg/L)[b] in Urine and Blood of People Living in the United States and People Living in Churchill County, Nevada**

| Metal | United States[c] | | Churchill County | | Comparison |
|---|---|---|---|---|---|
| | Geometric Mean (95% Confidence Interval)[d] | 95th Percentile | Geometric Mean (95% Confidence Interval) | % > U.S. 95th or Health Value | |
| **Antimony** | 0.11 (0.10–0.13) | 0.41 (0.39–0.46) | 0.15 (0.14–0.16) | 4.0 | H[e] |
| **Arsenic** | NA[f] | 50.0[g] | 34.61 (28.07–42.68) | 34.0[g] | H |
| **Barium** | 1.15 (0.96–1.38) | 6.60 (6.0–8.30) | 2.45 (2.10–2.85) | 14.0 | H |
| **Cadmium (urine)** | 0.33 (0.31–0.35) | 2.0[h] | 0.31 (0.28–0.34) | 0.0 | —[i] |
| **Cadmium (blood)** | 0.41 (0.39–0.44) | 5.0[h] | NC[j] | 0.0 | L[k] |
| **Cesium** | 4.34 (4.06–4.63) | 11.40 (10.30–12.50) | 5.98 (5.43–6.58) | 12.0 | H |
| **Chromium** | NA | NA | NC | NA | NA |
| **Cobalt** | 0.37 (0.35–0.40) | 1.32 (1.16–1.45) | 0.56 (0.50–0.62) | 7.0 | H |
| **Lead (urine)** | 0.76 (0.71–0.81) | 25.0[h] | 0.68 (0.61–0.76) | 0.0 | — |
| **Lead (blood)** | 1.66 (1.58–1.73) | 10.0[g] | 1.11 (1.02–1.21) | 0.0 | L |
| **Manganese** | NA | NA | 0.73 (0.67–0.80) | NA | NA |
| **Mercury (urine)** | 0.72 (0.64–0.81) | 20.0[g] | 0.38 (0.32–0.44) | 0.0 | L |
| **Mercury (blood)** | 0.34 (0.30–0.39) 1-5 yrs<br>1.02 (0.81–1.22) 16-49 yrs | 10.0[g] | 0.32 (0.22–0.45)<br>0.76 (0.65–0.88) | 0.0<br>0.0 | — |
| **Molybdenum** | 34.3 (29.4–40.1) | 174 (153– 201) | 62.14 (53.52–72.15) | 10.0 | H |
| **Nickel** | NA | 5.0[l] | NC | 3.0 | L |
| **Selenium (serum)** | NA | 179.0[m] | 121.02 (118.56–123.50) | 0.0 | L |
| **Thallium** | 0.17 (0.16–0.18) | 0.45 (0.42–0.47) | 0.16 (0.15–0.18) | 2.0 | — |
| **Tungsten** | 0.08 (0.07–0.09) | 0.48 (0.41–0.55) | 1.19 (0.89–1.59) | 68.0 | H |
| **Uranium** | 0.007 (0.006–0.008) | 0.05 (0.04–0.05) | 0.02 (0.02–0.03) | 25.0 | H |

a Urine levels are noncreatinine adjusted. Blood levels are not lipid-adjusted.
b Micrograms per liter
c U.S. values are from the *Second National Report on Human Exposure to Environmental Chemicals,* 2003.
d The interval of numbers in which we are 95% assured the value is contained.
e The lower boundary of the Churchill County confidence interval (CI) was higher than the upper boundary of the CI for the U.S. level or, b) more than 10% of the Churchill County participants had a value above the U.S. 95$^{th}$ percentile.
f Not available. This metal was not included in the *Second National Report on Human Exposure to Environmental Chemicals*, 2003.
g Goldfrank L. Goldfrank's Toxicologic Emergencies 7th ed. 2002. McGraw Hill; New York and Haddad L, Shannon M, Winchester J. Haddad's Clinical Management of Poisoning and Drug Overdose. 3$^{rd}$ ed. 1998. WB Saunders Company; Philadelphia.
h Lauwerys R, Hoet P. In Industrial Chemical Exposure: Guidelines for Biological Monitoring 3rd ed. 2001. Lewis Publishers; Boca Raton, Florida.
i The Churchill County geometric mean is consistent with national estimates.
j Not Calculated was used when less than 60% of the study population had detectable levels of this chemical.
k The upper boundary of the Churchill County CI was below the lower boundary of the CI for the U.S. level and b) less then 10% of the Churchill County participants had a value above the U.S. 95$^{th}$ percentile.
l White M, Sabbioni E. Trace element reference values in tissues from inhabitants of the European Union. Sci Total Environ 1998;216:253-70.
m Hogberg, J. Selenium. In Handbook on the Toxicology of Metals. 2nd ed.; 1986.